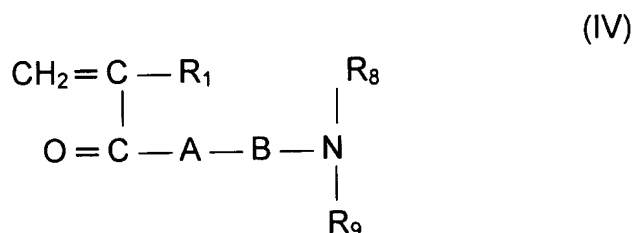


32. (Amended) The process of claim 26, wherein the cationic organic polymer comprises in polymerized form a non-ionic monomer having a non-aromatic hydrophobic group represented by the general formula (IV):



wherein  $\text{R}_1$  is H or  $\text{CH}_3$ ; A is O or NH; B is an alkylene group of from 2 to 4 carbon atoms or a hydroxy propylene group or, alternatively, A and B represent a single bond between C and N ( $\text{O}=\text{C}-\text{NR}_8\text{R}_9$ ); and  $\text{R}_8$  and  $\text{R}_9$  are each H or a substituent containing an alkyl group having from 1 to 6 carbon atoms, at least one of  $\text{R}_8$  and  $\text{R}_9$  being a substituent containing an alkyl group having from 3 to 4 carbon atoms.

37. (Amended) The process of claim 36, wherein the low molecular weight cationic organic polymer has a molecular weight up to about 700,000.

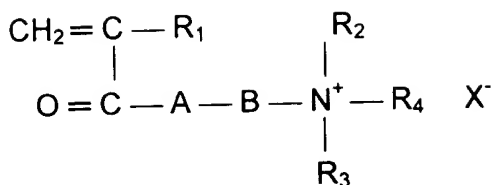
38. (Amended) The process of claim 26, wherein the suspension that is dewatered on the wire has a conductivity of at least 3.5 mS/cm.

41. (Amended) A process for the production of paper which comprises:

- (i) providing a suspension containing cellulosic fibres, and optional fillers;
- (ii) adding to the suspension drainage and retention aids comprising a cationic organic polymer and anionic silica-based particles; and
- (iii) forming and dewatering the suspension on a wire; the suspension that is dewatered on the wire having a conductivity of at least 2.0 mS/cm;

wherein the cationic organic polymer comprises in polymerized form one or more monomers comprising at least one cationic monomer having a non-aromatic hydrophobic group represented by the general formula (I):

(I)



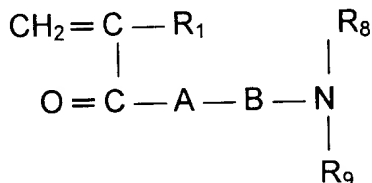
wherein R<sub>1</sub> is H or CH<sub>3</sub>; R<sub>2</sub> and R<sub>3</sub> are each H or an alkyl group having from 1 to 3 carbon atoms; A is O or NH; B is an alkylene group of from 2 to 8 carbon atoms or a hydroxy propylene group; R<sub>4</sub> is a substituent containing a non-aromatic hydrophobic group containing from 3 to 12 carbon atoms; and X<sup>-</sup> is an anionic counterion.

44. (Amended) A process for the production of paper which comprises:

- (i) providing a suspension containing cellulosic fibres, and optional fillers;
- (ii) adding to the suspension drainage and retention aids comprising a cationic organic polymer and anionic silica-based particles; and
- (iii) forming and dewatering the suspension on a wire; the suspension that is dewatered on the wire having a conductivity of at least 2.0 mS/cm;

wherein the cationic organic polymer comprises in polymerized form one or more monomers comprising at least one non-ionic monomer having a non-aromatic hydrophobic group represented by the general formula (IV):

(IV)



wherein R<sub>1</sub> is H or CH<sub>3</sub>; A is O or NH; B is an alkylene group of from 2 to 8 carbon atoms or a hydroxy propylene group or, alternatively, A and B represent a single bond between C and N (O=C—NR<sub>8</sub>R<sub>9</sub>); and R<sub>8</sub> and R<sub>9</sub> are each H or a substituent containing a non-aromatic hydrophobic group having from 1 to 6 carbon atoms, at

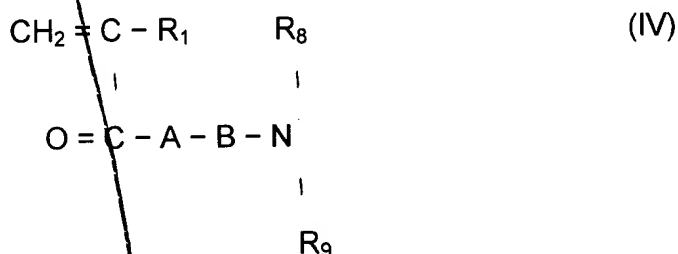
least one of  $R_8$  and  $R_9$  being a substituent containing a non-aromatic hydrophobic group having from 2 to 6 carbon atoms.

46. (Amended) A cationic vinyl addition polymer comprising in polymerized form

- (a) at least one non-cationic monomer having a non-aromatic hydrophobic monomer;
- (b) at least one cationic monomer; and
- (c) (meth)acrylamide;

wherein the cationic vinyl addition polymer is prepared from a monomer mixture comprising from 75 to 95 mole% of (meth)acrylamide;

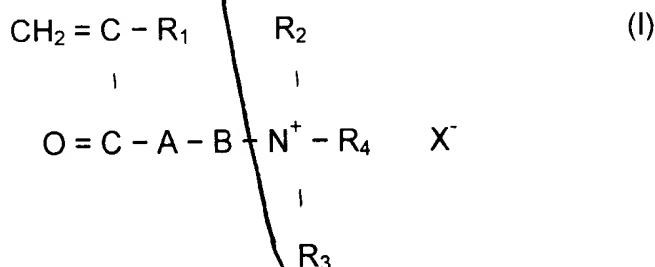
(a) said at least one non-cationic monomer having a non-aromatic hydrophobic group comprising a monomer represented by the general formula (IV)



wherein  $R_1$  is H or  $\text{CH}_3$ ; A and B represent a single bond between C and N ( $\text{O}=\text{C}-\text{NR}_8\text{R}_9$ );  $R_8$  and  $R_9$  are each H or a substituent containing an alkyl group having from 1 to 6 carbon atoms, at least one of  $R_8$  and  $R_9$  being a substituent containing an alkyl group having from 2 to 6 carbon atoms;

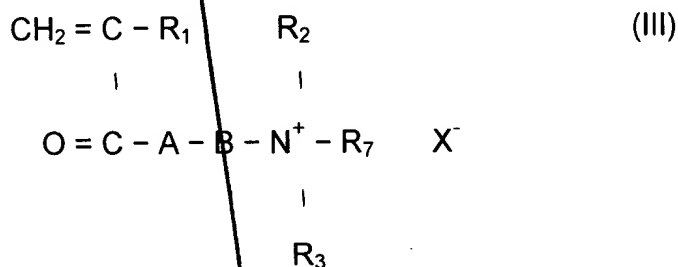
(b) said at least one cationic monomer comprising a cationic monomer selected from the group consisting of:

(i) cationic monomers represented by the general formula (I):



wherein  $R_1$  is H or  $CH_3$ ;  $R_2$  and  $R_3$  are each H or an alkyl group having from 1 to 3 carbon atoms; A is O or NH; B is an alkylene group of from 2 to 4 carbon atoms or a hydroxy propylene group;  $R_4$  is a non-aromatic hydrocarbon group containing from 4 to 8 carbon atoms; and  $X^-$  is an anionic counterion;

(ii) cationic monomers represented by the general formula (III):



wherein  $R_1$  is H or  $CH_3$ ;  $R_2$  and  $R_3$  are each H or an alkyl group having from 1 to 3 carbon atoms; A is O or NH; B is an alkylene group of from 2 to 4 carbon atoms, or a hydroxy propylene group;  $R_7$  is H, an alkyl group having from 1 to 3 carbon atoms, a benzyl group or a phenylethyl group; and  $X^-$  is an anionic counterion;

(iii) and mixtures thereof.